

ABSTRACT

A film-forming unit of the invention includes a processing container in which a vacuum can be created, a stage
5 arranged in the processing container, on which an object to be processed is placed, a process-gas supplying means for supplying a process gas into the processing container, and a heating means for heating the object to be processed placed on the stage. A division wall surrounds a lateral side and
10 a lower side of the stage. An inert gas is introduced into a stage-side region surrounded by the division wall, by an inert-gas supplying means. A gap-forming member is arranged in such a manner that its inner peripheral portion is arranged above a peripheral portion of the object to be processed
15 placed on the stage via a gap and its outer peripheral portion is arranged above the division wall via a gap.

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